

# FACILITY POWER CASE STUDY

## Wisconsin Housing and Economic Development Authority (WHEDA)

201 West Washington Avenue  
Madison, Wisconsin  
(Dane County)

**Contact Person:** Larry Krom, L & S Associates

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**System Supplier:** Ascension Technology

**System Installer:** Ascension Technology

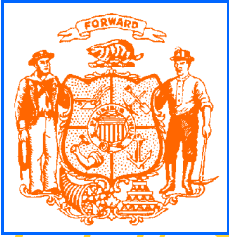
**PV System Cost:** \$ 71,331

**Installation  
Date:** August 1997



### System Components:

<b>array</b>	5.6 kW ASE Americas ASE-285 (24 modules)
<b>inverter</b>	Series 2400 Omnion Power Engineering Co.
<b>other</b>	Campbell Scientific datalogger, weather instrumentation, and modem.
<b>loads</b>	Utility-tied (grid-interactive) PV system inter-connected at an electrical distribution panel on the customer side of the utility meter.



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### General Comments:

- PV system provides energy and coincidental demand reduction to offset the loads of an eight-story office building.
- Owned and operated by the Wisconsin Housing and Economic Development Authority (WHEDA).
- This project was co-funded by a State Grant from the Wisconsin Energy Bureau (Department of Administration).
- Measured energy output regularly exceeded 40 kWh(ac) /day in the spring of 1999. The total monthly energy output from the system during March 1999 was 1,006 kWh(ac).
- The PV array utilizes a ballasted support structure on a rubber membrane (EPDM) roof. A ballasted array does not require roof penetrations.
- Routine maintenance is performed by building engineering personnel.
- Monthly PV performance and weather data is collected by a datalogger on a 15-minute basis. The cumulative data is downloaded via modem every month.
- System tours are given to engineers, architects, building managers, "trade" workers, and others as part of an on-going educational effort to showcase renewable energy options for buildings.

